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FLUOR DANIEL

US DEPARTMENT OF ENERGY
HANFORD WASTE VITRIFICATION PLANT

DESIGN CHANGE NOTICE

DCN - 0184

REV 0

PAGE 1 OF 5

DCN TITLE
Revision of acceptable vibration
limits of pumps.

DATE INITIATED

25 April 1994

PACKAGE NO.
A160

SECTION 1: DESCRIPTION OF CHANGE

This DCN revises the acceptable vibration limits of the following pumps:

PX-500-002A/B Firewater Pumps

PX-500-004 Jockey Pump

PX-530-013A/B Effluent Discharge Sump Pumps

PX-530-015 Effluent Discharge Sump Pump

PX-500-016 Effluent Discharge Sump Pump

This change is made per WHC direction.

FOR LIST OF AFFECTED DOCUMENTS, SEE SECTIONS 6 AND 7.

CAUSE OF
CHANGE:

- ☐ Field Change Request
- ☐ Supplier Disposition
- ☐ Deficiency Report
- ☐ Design Development
- ☐ Change Request
- ☐ TBD/Hold
- ☒ Other Title III

Review

WHC request

RFF-1649

(WHC 9452439)

Initiating Document(s)

SECTION 2: EVALUATION

WAPA DWG/SPEC?

☒ NO ☐ YES

QUALITY LEVEL 1 DWG/SPEC?

☒ NO ☐ YES

SAFETY CLASS 1 OR 2 DWG/SPEC?

☒ NO ☐ YES

SYSTEMS ANALYSES AFFECTED?

☒ NO ☐ YES

MULTI-DISCIPLINE CHANGE?

☒ NO ☐ YES

IF "YES", ADDITIONAL
REVIEW REQUIRED BY:

REVIEWER COMMENTS
AND SIGNATURE/DATE

DCN Evaluated by:

Systems

J. Thompson

ADM

J. Glover

Others

SECTION 3: APPROVED FOR CONSTRUCTION

Donald G. SeBasty 26 APR 94
Originator Date

RT Bedell by Adam Glover 4/26/94
Project/Resident Engineer Date

SECTION 4: CONCURRENCE

RT Bedell 6/3/94
Project Management Date
Homer E. Savage 5-25-94
Systems Date
Jim Martin 6-2-94
Independent Safety Date
Jim Martin for ED 5/25/94
Quality Assurance Date
Francis Stokes 5-25-94
Configuration Management Date

SECTION 5: RELEASED FOR CONSTRUCTION

PE STAMP REQUIRED? ☐ NO ☒ YES

RT Bedell 6/8/94
WHC Date
J. Glover 6-16-94
UCAT Date
Jim E. C... 6/15/94
DOE Date

COMMENTS:

951333B.1950

**FLUOR DANIEL**US DEPARTMENT OF ENERGY
HANFORD WASTE VITRIFICATION PLANT**DESIGN CHANGE NOTICE****DCN - 0184**

REV

0

DISCIPLINE

Mech

PKG. NO.

A160

PAGE

2

PREPARED BY: D. G. LaBounty

Date: 25 April 1994

DISCIPLINE ENGINEER: D. G. LaBounty

Date: 25 April 1994

SECTION 6: CONSTRUCTION DOCUMENTS AFFECTED

DOCUMENT NUMBER	SHT/ PAGE	REV NO	DOCUMENT NAME	INCLD Y/N	DESCRIPTION OF CHANGE
B-595-C-A160-15145	7	1	Sump Pumps	Yes	Revised acceptable vibration limits.
B-595-C-A160-15540	9	1	Fire Water System Pumps	Yes	Revised acceptable vibration limits.
B-595-C-A160-15541	7	1	Fire Water Unit Heater Pump	Yes	Revised acceptable vibration limits.

SECTION 7: NON-CONSTRUCTION DOCUMENTS AFFECTED

This section references affected items such as P&IDs or calculations/analyses, but they are generally not included in DCN package.

DOCUMENT NUMBER	SHT/ PAGE	REV NO	DOCUMENT NAME	DESCRIPTION OF CHANGE
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N/A

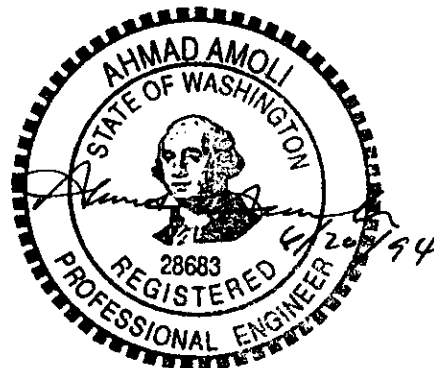
2.2.4 Vibration

Delete the second sentence beginning with "Peak-to-peak limits measured ..." including the table following, and replace with:


"The acceptable peak-to-peak vibration limits measured on the bearing housing for anti-friction bearings shall be in accordance with the Hydraulic Institute standards.

For sleeve bearings, the acceptable limits of vibration measured on the shaft at the sleeve bearing shall be 3 mils maximum."

**ISSUED FOR DEPARTMENT
OF ECOLOGY PERMIT ONLY**



EXPIRES 9-11-94

 FLUOR DANIEL		U.S. DEPARTMENT OF ENERGY HANFORD WASTE VITRIFICATION PLANT		DESIGN CHANGE NOTICE	
DESCRIPTION OF CHANGE Revision of acceptable vibration limits for pumps.				BASE DOC. NO. B-595-C-A160-15145 SHT/PG. 7 REV. 1	
				DISCIPLINE: Mechanical	
PREPARED BY: D. G. LaBounty		DATE: 25Apr94		DCN - 0184	
DISCIPLINE ENGINEER: D. G. LaBounty		DATE: 25Apr94			
				REV 0	PAGE 3

2.2.5 Vibration

9513338.1952


Delete the third sentence beginning with "Peak-to-peak limits ..." including the table following, and replace with:

"The acceptable peak-to-peak vibration limits measured on the bearing housing for anti-friction bearings shall be in accordance with Hydraulic Institute standards."

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EXPIRES 9-11-94

 FLUOR DANIEL		U.S. DEPARTMENT OF ENERGY HANFORD WASTE VITRIFICATION PLANT		DESIGN CHANGE NOTICE		
DESCRIPTION OF CHANGE Revision of acceptable vibration limits for pumps.				BASE DOC. NO. B-595-C-A160-15540 SHT/Pg. 9 REV. 1		
				DISCIPLINE: Mechanical		
PREPARED BY: D. G. LaBounty		DATE: 25Apr94		DCN - 0184	REV 0	PAGE 4
DISCIPLINE ENGINEER: D. G. LaBounty		DATE: 25Apr94				

2.2.5 Vibration


Delete the third sentence beginning with "Peak-to-peak limits ..." including the table following, and replace with:

"The acceptable peak-to-peak vibration limits measured on the bearing housing for anti-friction bearings shall be in accordance with the Hydraulic Institute standards."

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EXPIRES 9-11-94

 FLUOR DANIEL		U.S. DEPARTMENT OF ENERGY HANFORD WASTE VITRIFICATION PLANT		DESIGN CHANGE NOTICE	
DESCRIPTION OF CHANGE Revision of acceptable vibration limits for pumps.				BASE DOC. NO. B-595-C-A160- 15541	
				SHT/Pg. 7 REV. 1	
				DISCIPLINE: Mechanical	
PREPARED BY: D. G. LaBounty		DATE: 25Apr94		DCN - 0184	
DISCIPLINE ENGINEER: D. G. LaBounty		DATE: 25Apr94			
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